




中国认可  
国际互认  
检测  
TESTING  
CNAS L3337

<b>Test Report Number:</b>	LCZS22090149 V1.1	<b>Total Page(s):</b> 7
<b>Applicant Name:</b>	Imminent Teknologies LLC	
<b>Applicant Address:</b>	Suite 5, Valley Towers, Valley Road, Birkirkara BKR9022, Malta	
<b>Test item:</b>	Inground light	
<b>Model / Type Reference:</b>	See model list on page 3	
<b>Date of Issue:</b>	2022-10-12	
<b>Testing Laboratory:</b>	LCTECH Guangdong Testing Services Co., Ltd. 2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
<b>Test Specification:</b>	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE (According to EN IEC 60598-1:2021 Clause 9.2.2 and Clause 9.2.8)	
<b>Test Result:</b>	Passed	
<b>Compiled by:</b>	<b>Reviewed by:</b>	
<div>2022-10-12 Ricky Wang <i>Ricky Wang</i> 2022-10-12 Shona Chen <i>Shona Chen</i></div> <div>Date Name Signature Date Name Signature</div>		
<b>Remark:</b>	Test report LCZS22090149 was replaced by LCZS22090149 V1.1, the report LCZS22090149 is invalid.	
<p>The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.</p>		

<b>Test item description .....</b>	<b>Inground light</b>
<b>Trade Mark .....</b>	
<b>Manufacturer .....</b>	Imminent Teknologies LLC Suite 5, Valley Towers, Valley Road, Birkirkara BKR9022, Malta
<b>Model/Type reference .....</b>	See model list on page 3
<b>Ratings .....</b>	24Vdc, IP67, See model list on page3
<b>Test item particulars .....</b>	
<b>Classification of installation and use .....</b>	LED Inground light for outdoor application
<b>Supply Connection .....</b>	Supply wire
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object..... : N/A	
- test object does meet the requirement ..... : P (Pass)	
- test object does not meet the requirement ..... : F (Fail)	
<b>Testing.....</b>	
<b>Date of receipt of test item .....</b>	2022-10-10
<b>Date (s) of performance of tests.....</b>	2022-10-11

<p><b>General remarks:</b></p> <p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. <b>Note: EN Group Differences together with National Differences and Special National Conditions, if any, are in the Appendix to the main body of this TRF.</b> Throughout this report a comma (point) is used as the decimal separator. When determining of test conclusion, measurement uncertainty of test has been considered. The report is quoted the standard EN IEC 60598-1:2021 have been accredited by CNAS (L3337), and the following clauses in the standard EN IEC 60598-1:2021 are restricted by CNAS (L3337). Cl. 9.2 IPX1, IPX2, IPX9</p>
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**General product information:**

- The product is LED inground light for outdoor use
- BLU-ROOTZ-R6B, BLU-ROOTZ-R7B and BLU-ROOTZ- R8B have the similar structure, except the size and power.

Model list

No.	Model	Input	Power	Size (WxH mm)	Classification
1	BLU-ROOTZ-R4	24Vdc	Max. 4W	Φ45x65	Class I
2	BLU-ROOTZ-R6B	24Vdc	Max. 4W	Φ64x74	Class III
3	BLU-ROOTZ-R7B	24Vdc	Max. 9W	Φ80x85	Class III
4	BLU-ROOTZ-R8B	24Vdc	Max. 9W	Φ80x85	Class III

**Summary of testing:**

Model BLU-ROOTZ-R4 and BLU-ROOTZ-R7B were selected as representatives to perform all the tests.

The samples are found to comply with the standard:

- RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE (According to EN IEC 60598-1:2021 Clause 9.2.2 and Clause 9.2.8)

EN 60598-1			
Cl.	Requirement – Test	Result	Verdict
<b>9 (13.13)</b>	<b>RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE</b>		<b>P</b>
9.2	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP .....	IP67	—
	- mounting position during test .....	As normal use	—
	- electric strength test afterwards	Between live parts and metal enclosure: 500V	P
9.2.2	<p>IP6X test:</p> <p>Dust-proof luminaires (first characteristic Ipn numeral 6) shall be tested in a dust chamber similar to that shown in Figure 6, in which talcum powder is maintained in suspension by an air current. The chamber shall contain 2 kg of powder for every cubic metre of its volume. The talcum powder used shall be able to pass through a square-meshed sieve whose nominal wire diameter is 50 µm and whose nominal free distance between wires is 75 µm. It shall not have been used for more than 20 tests.</p> <p>The test shall proceed as follows:</p> <p>a. The luminaire is suspended outside the dust chamber and operated at rated supply voltage until operating temperature is achieved.</p> <p>b. The luminaire, whilst still operating, is placed with the minimum disturbance in the dust chamber.</p> <p>c. The door of the dust chamber is closed.</p> <p>d. The fan/blower causing the talcum powder to be in suspension is switched on.</p> <p>e. After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum powder remains in suspension .</p>	No talcum in dust-tight luminaire	P

9.2.8	<p>IPX7 test: Watertight luminaires (second characteristic IP numeral 7) are switched off and immediately immersed for 30 min in water, so that there is at least 150 mm of water above the top of the luminaire and the lowest portion is subjected to at least 1 m head of water.</p> <p>Luminaires shall be held in position by their normal fixing means. Luminaires for tubular fluorescent lamps shall be positioned horizontally, with the diffuser upwards, 1 m below the water surface.</p>	No water entry	P
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**Photo document**



Picture 1: Overview of model BLU-ROOTZ-R4



Picture 2: Overview of model BLU-ROOTZ-R7B





Picture 3: IPX7 test view of models BLU-ROOTZ-R4 and BLU-ROOTZ-R7B



Picture 4: IP6X test view of models BLU-ROOTZ-R4 and BLU-ROOTZ-R7B

---End of test report---